Title (en)

## MÉTHOD AND APPARATUS FOR COMPACTING AND CONSOLIDATING A MAT

Publication

EP 0291032 A3 19900307 (DE)

Application

## EP 88107549 A 19880511

Priority

DE 3715898 A 19870513

Abstract (en)

[origin: EP0291032A2] To produce a mat from continuous filaments or staple fibres or the like, a laid structure formed from these particulate materials is subjected to the action of fluid jets which are directed perpendicularly against the plane of the laid structure and which impinge upon the laid structure in a uniform manner in rows of dots. As the laid structure moves by, the fluid jets are pivoted in such a way that no relative motion results between their points of impingement and the laid structure. This process is carried out using two driven rolls (11, 15), of which at least one is rotatably mounted on a hollow axle (10) and equipped with radial holes (14a, 14b) which are arranged over the circumference in uniform distribution. The rolls (11, 15) are provided with profiles (18 and 16 respectively) via which they engage with one another to form, in the engagement zone, chambers (19) within which the holes (14a and 14b) end and intensively fluidise the particulate materials contained therein. <IMAGE>

IPC 1-7

D04H 1/44; D04H 3/10

IPC 8 full level

D04H 3/10 (2012.01)

CPC (source: EP)

## D04H 3/10 (2013.01); D04H 18/04 (2013.01)

Citation (search report)

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- [A] US 3917785 A 19751104 KALWAITES FRANK
- [A] US 3837046 A 19740924 KALWAITES F

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